



<b>Form PTO-1449</b> (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)	ATTY. DKT. NO.: 5838-03101  APPLICANT: Murphy et al.  FILING DATE: January 30, 2003	SERIAL NO. 10/713,911  ART NO. Unknown  CONFIRMATION NO. 7869
---	---	---

**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
/NS/	B1	6421565	7/16/2002	Hemmingsson			
/NS/	B2	6230048	5/8/2001	Selvester et al.			
/NS/	B3	6482146	11/19/2002	Alferness et al.			

**FOREIGN PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

/NS/	B4	International Search Report and Written Opinion for PCT/US04/02604 mailed October 6, 2004.

EXAMINER: /Nasir Shahrestani/

DATE CONSIDERED: 08/20/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Information Disclosure Statement--PTO 1449 (modified)

<b>Form PTO-1449</b> (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)			ATTY. DKT. NO. 5838-03101  APPLICANT: Murphy et al.  FILING DATE: January 30, 2003		SERIAL NO. 10/713,911  ART NO. Unknown  CONFIRMATION NO. 7869		
<b>U.S. PATENT DOCUMENTS</b>							
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<b>FOREIGN PATENT DOCUMENTS</b>							
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
/NS/	A1	F. P. van Ruge et. al., "Magnetic Resonance Imaging during dobutamine Stress for detection and localization of coronary artery disease" <i>Circulation</i> 1994; 90, No 1, pp. 127-138					
/NS/	A2	Antman, Elliott M. et al., "Abciximab Facilitates the Rate and Extent of Thrombolysis- Results of the Thrombolysis in Myocardial Infarction (TIMI) 14 Trial", <i>Circulation</i> , Jun. 1, 1999, pp. 2720-2732.					
/NS/	A3	Keegan, Jennifer et al., "Interleaved Spiral Cine Coronary Artery Velocity Mapping", <i>Magnetic Resonance in Medicine</i> , vol. 43, 2000, pp. 787-792.					
/NS/	A4	Medina, R. et al., "Reconstruction of Three-Dimensional Shapes in Biplane Angiography: a Fuzzy and Evolutionary Approach ", <i>Computers in Cardiology</i> , Hannover, Germany, Sep. 1999, 26, pp. 663-666.					
/NS/	A5	Miles, K.A., "Measurement of tissue perfusion by dynamic computed tomography", <i>The British Journal of Radiology</i> , 1991, vol. 64, No. 761, pp. 409-412.					
/NS/	A6	Mochizuki, Teruhito et al., "Demonstration of Acute Myocardial Infarction by Subsecond Spiral Computed Tomography-Early Defect and Delayed Enhancement", <i>Circulation</i> , 1999, 99, pp. 2058-2059.					
/NS/	A7	Rumberger, John A. et al., "Use of Ultrafast Computed Tomography to Quantitate Regional Myocardial Perfusion: A Preliminary Report", <i>Journal of the American College of Cardiology</i> , vol. 9, no. 1, Jan. 1987, pp. 59-69.					
/NS/	A8	J.M. Guccione et al., "Passive Material Properties of Intact Ventricular Myocardium Determined from a Cylindrical Model" <i>Journal of Biomechanical Engineering</i> , vol. 113, Feb. 1991.					
/NS/	A9	K.D. Costa et al., "A Three-Dimensional Finite Element Method for Large Elastic Deformations of Ventricular Myocardium: I-Cylindrical and Spherical Polar Coordinates" <i>Journal of Biomechanical Engineering</i> , Nov. 1996, vol. 118, pp. 452-463.					
/NS/	A10	P.J. Hunter et al., "Modeling the mechanical properties of cardiac muscle" <i>Progress in Biophysics &amp; Molecular Biology</i> , 69 (1998) pp. 289-331.					
/NS/	A11	R. Mazhari et al., "Integrative Models for Understanding the Structural Basis of Regional Mechanical Dysfunction in Ischemic Myocardium" <i>Annals of Biomedical Engineering</i> , 2000, vol. 28, pp. 979-990.					
/NS/	A12	Hurst et al., "Hurst's The Heart, Arteries and Veins, 9th Edition" McGraw-Hill, 1998, Chapters 18-20, pp. 623-684.					
/NS/	A13	Y. Sun et al., "A comprehensive model for right-left heart interaction under the influence of pericardium and baroreflex" <i>The American Journal of Physiology</i> , 1997, pp. H1499-H1515.					

EXAMINER: /Nasir Shahrestani/

DATE CONSIDERED: 08/20/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Information Disclosure Statement--PTO 1449 (modified)

<b>Form PTO-1449</b> (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)			ATTY. DKT. NO. 5838-03101  APPLICANT: Murphy et al.  FILING DATE: January 30, 2003		SERIAL NO. 10/713,911  ART NO. Unknown  CONFIRMATION NO. 7869		
<b>U.S. PATENT DOCUMENTS</b>							
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<b>FOREIGN PATENT DOCUMENTS</b>							
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
/NS/	A14	Makhijani, V. B. et al., "Three-dimensional coupled fluid - Structure simulation of pericardial bioprosthetic aortic valve function" <i>ASAIO Journal</i> , 1997, 43:M387-M392.					
/NS/	A15	Olszewski, M. E., "Segmentation of Cardiac Magnetic Resonance Images Using Multidimensional Active Appearance Models", Department of Electrical and Computer Engineering, The University of Iowa, April, 2001.					
/NS/	A16	Patel, N. C. et al., "Neurological Outcomes in Coronary Surgery: Independent Effect of Avoiding Cardiopulmonary Bypass" <i>Ann. Thorac. Surg.</i> 2002;74:400-6, Presented at the 38th Annual Meeting of The Society of Thoracic Surgeons, Fort Lauderdale, FL, Jan 28-30, 2002.					
/NS/	A17	F.H. Sheehan et. al., "Advantages and applications of the centerline method for characterizing regional ventricular function" <i>Circulation</i> 1986; 74, no. 2, pp. 293-305.					
/NS/	A18	Imamaki, M. et. al., "Prediction of improvement in regional left ventricular function after coronary artery bypass grafting: quantitative stress-redistribution <sup>201</sup> TI imaging in detection of myocardial viability" <i>J. Cardiovascular Surg.</i> Oct., 2002; Vol. 43, No. 5: pp. 603-7.					
/NS/	A19	E. R. Holman et. al., "Detection and Quantification of Dysfunctional Myocardium by Magnetic Resonance Imaging" <i>Circulation</i> 1997; Vol. 95, No. 4; pp. 924-931.					
/NS/	A20	van der Geest, Rob J. et al., "Comparison Between Manual and Semiautomated Analysis of Left Ventricular Volume Parameters from Short-Axis MR Images", <i>Journal of Computer Assisted Tomography</i> , vol. 21, no. 5, 1997, pp. 756-765.					
/NS/	A21	Weiss, Robert M. et al., "Evaluation of Cardiovascular Structure and Function with Electron-Beam Computed Tomography", <i>Marcus Cardiac Imaging</i> , 1996, Vol. 2, Chapt. 53: 820-828.					
/NS/	A22	Dai, Xiaolong et al., "Left-Ventricle Boundary Detection from Nuclear Medicine Images", ( <a href="http://www4.ncsu.edu/eos/users/w/wes/homepage/daiHTML/cmrg_JDI.fm3.html#FN1">http://www4.ncsu.edu/eos/users/w/wes/homepage/daiHTML/cmrg_JDI.fm3.html#FN1</a> ) <i>Journal of Digital Imaging</i> , Vol. 11, No. 1, Feb., 1998.					
/NS/	A23	Di Donato, M. et al. "Regional Myocardial performance of non-ischaemic zones remote from anterior wall left ventricular aneurysm - Effects of aneurysmectomy", <i>European Heart Journal</i> , (1995) 16, 1285-1292.					
/NS/	A24	T.F. Cootes and C. J. Taylor, "Statistical Models of Appearance for Computer Vision" July 10, 2000 <a href="http://cvl.umiacs.umd.edu/users/nanda/Academics/Academic.html">http://cvl.umiacs.umd.edu/users/nanda/Academics/Academic.html</a>					
/NS/	A25	Cootes, T. F. et al., "Constrained Active Appearance Models" ( <a href="http://citeseer.nj.nec.com/cache/papers/cs/22292/http:zSzzSzwww.wiau.man.ac.ukzSz-bimzSzPaperszSziccv2001.pdf/cootes01constrained.pdf">http://citeseer.nj.nec.com/cache/papers/cs/22292/http:zSzzSzwww.wiau.man.ac.ukzSz-bimzSzPaperszSziccv2001.pdf/cootes01constrained.pdf</a> ) <i>Proc. Int. Conf. on Computer Vision 2001</i> , Vol. I, pp. 748-754, 2001.					
/NS/	A26	nerac.com "tech track: cardiac MRI", Question No. 1193837.005, April 11, 2003.					

EXAMINER: /Nasir Shahrestani/

DATE CONSIDERED: 08/20/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Information Disclosure Statement-PTO 1449 (modified)

**Form PTO-1449** (modified)  
List of Patents and Publications  
For Applicant's Information  
Disclosure Statement  
(Use several sheets if necessary)

ATTY. DKT. NO. 5838-03101

APPLICANT: Murphy et al.

FILING DATE: January 30, 2003

SERIAL NO. 10/713,911

ART NO. Unknown

CONFIRMATION NO. 7869

**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
/NS/	A27	10/135,465	4/30/2002	Murphy et al.			
/NS/	A28	10/800,461	3/15/2004	Murphy et al.			
/NS/	A29	10/800,433	3/15/2004	Murphy et al.			
/NS/	A30	10/769,745	1/30/2004	Suresh et al.			
/NS/	A31	10/768,403	1/30/2004	Murphy et al.			

**FOREIGN PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

/NS/	A32	nerac.com "tech track: Florence H Sheehan", Question No. 1199989.005, February 28, 2003.					
/NS/	A33	nerac.com "RetroSearch: Active Appearance Models", Question No. 1199989.009, Sept. 15, 2003.					
/NS/	A34	nerac.com "tech track: cardiac MRI", Question No. 1193837.005, April 12, 2003.					

/Nasir Shahrestani/

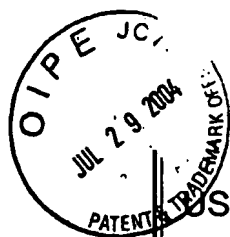
EXAMINER:

DATE CONSIDERED:

08/20/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

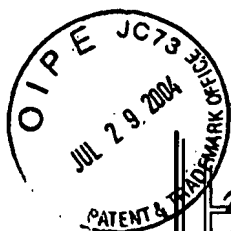
Information Disclosure Statement--PTO 1449 (modified)



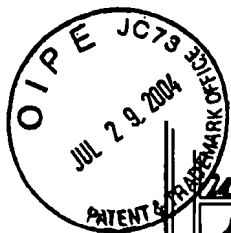
# US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
/NS/	1	5072384	1991-12-10	Doi et al.			
/NS/	2	5151856	1992-09-29	Halmann et al.			
/NS/	3	5235510	1993-08-10	Yamada et al.			
/NS/	4	5239591	1993-08-24	Ranganath			
/NS/	5	5273038	1993-12-28	Beavin			
/NS/	6	5360006	1994-11-01	Geiser et al.			
/NS/	7	5375156	1994-12-20	Kuo Petravic et al.			
/NS/	8	5433199	1995-07-18	Cline et al.			
/NS/	9	5435310	1995-07-25	Sheehan et al.			
/NS/	10	5450850	1995-09-19	Iinuma			
/NS/	11	5509084	1996-04-16	Tanaka			
/NS/	12	5533085	1996-07-02	Sheehan et al.			
/NS/	13	5559901	1996-09-24	Lobregt			
/NS/	14	5570430	1996-10-29	Sheehan et al.			
✓	15	5601084	1997-02-11	Sheehan et al.			
✓	16	5633951	1997-05-27	Moshfeghi			
✓	17	5684398	1997-11-04	Takiguchi et al.			
✓	18	5687737	1997-11-18	Branham et al.			
✓	19	5704791	1998-01-06	Gillio			
✓	20	5734739	1998-03-31	Sheehan et al.			
✓	21	5755577	1998-05-26	Gillio			
✓	22	5757877	1998-05-26	Wilting			
✓	23	5779634	1998-07-14	Ema et al.			
✓	24	5791908	1998-08-11	Gillio			
✓	25	5800177	1998-09-01	Gillio			
✓	26	5800178	1998-09-01	Gillio			
✓	27	5807256	1998-09-15	Taguchi et al.			
✓	28	5817022	1998-10-06	Vesely			
✓	29	5839440	1998-11-24	Liou et al.			
✓	30	5889524	1999-03-30	Sheehan et al.			
✓	31	5892515	1999-04-06	Kobayashi et al.			
✓	32	5902239	1999-05-11	Buurman			



22	33	5920660	1999-07-06	Goto	
22	34	5923770	1999-07-13	ODonnell et al.	
22	35	5947899	1999-09-07	Winslow et al.	
22	36	5954648	1999-09-21	Van Der Brug	
22	37	5963211	1999-10-05	Oikawa et al.	
22	38	6024705	2000-02-15	Schlager et al.	
22	39	6045512	2000-04-04	Roteliuk et al.	
22	40	6047090	2000-04-04	Makram Ebeid	
22	41	6106466	2000-08-22	Sheehan et al.	
22	42	6185447	2001-02-06	Alley et al.	
22	43	6373920	2002-04-16	Hsieh	
22	44	6438403	2002-08-20	Cline et al.	
22	45	6447453	2002-09-10	Roundhill et al.	
22	46	6493571	2002-12-10	Bis et al.	
22	47	6496560	2002-12-17	Lin et al.	
22	48	6190320	2001-02-20	Lelong	B1
22	49	6205349	2001-03-20	Kim et al.	B1
22	50	6205411	2001-03-20	DiGioia, III et al.	B1
22	51	6241699	2001-06-05	Suresh et al.	B1
22	52	6268730	2001-07-31	Du	B1
22	53	6298112	2001-10-02	Acharya et al.	B1
22	54	6315735	2001-11-13	Joeken et al.	B1
22	55	6346940	2002-02-12	Fukunaga	B1
22	56	6366684	2002-04-02	Gerard et al.	B1
22	57	6438403	2002-08-20	Cline et al.	B1
22	58	6442417	2002-08-27	Shahidi et al.	B1
22	59	6445183	2002-09-03	Shimizu et al.	B1
22	60	6447454	2002-09-10	Chenal et al.	B1
22	61	6454712	2002-09-24	Oonuki	B1
22	62	6454776	2002-09-24	Tajima et al.	B1
22	63	6468218	2002-10-22	Chen et al.	B1
22	64	6470070	2002-10-22	Menhardt	B2
22	65	6473488	2002-10-29	Menhardt	B2
22	66	6473634	2002-10-29	Barni	B1
22	67	6487432	2002-11-26	Slack	B1
22	68	6510337	2003-01-21	Heuscher et al.	B1

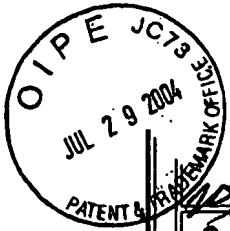


69	6522324	2003-02-18	Bosma et al.	B1
70	6526307	2003-02-25	Foo	B2
71	6557558	2003-05-06	Tajima et al.	B1
72	6559641	2003-05-06	Thesen	B2
73	6563941	2003-05-13	ODonnell et al.	B1
74	6573717	2003-06-03	Thesen	B2
75	6574304	2003-06-03	Hsieh et al.	B1
76	6587541	2003-07-01	Menhardt	B2
77	6608916	2003-08-19	Wei et al.	B1
78	6608917	2003-08-19	Wei et al.	B1
79	6628743	2003-09-30	Drummond et al.	B1

## US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
1	1	20010029333	2001-10-11	Shahidi	A1		
2	2	20010031919	2001-10-18	Strommer et al.	A1		
3	3	20010036245	2001-11-01	Kienzle, III et al.	A1		
4	4	20020016541	2002-02-07	Glossop	A1		
5	5	20020031204	2002-03-14	Vilsmeier	A1		
6	6	20020032377	2002-03-14	Thesen	A1		
7	7	20020035321	2002-03-21	Bucholz et al.	A1		
8	8	20020042566	2002-04-11	Matsuzaki et al.	A1		
9	9	20020070970	2002-06-13	Wood et al.	A1		
10	10	20020077540	2002-06-20	Kienzle, III	A1		
11	11	20020077541	2002-06-20	Kienzle, III	A1		
12	12	20020082498	2002-06-27	Wendt et al.	A1		
13	13	20020087075	2002-07-04	Bucholz	A1		
14	14	20020127523	2002-09-12	Edic et al.	A1		
15	15	20020167533	2002-11-14	Tirumalai et al.	A1		
16	16	20030000535	2003-01-02	Galloway, Jr. et al.	A1		
17	17	20030018251	2003-01-23	Solomon	A1		
18	18	20030038802	2003-02-27	Johnson et al.	A1		
19	19	20030069494	2003-04-10	Jolly	A1		
20	20	20030078494	2003-04-24	Panescu et al.	A1		




<input checked="" type="checkbox"/>	21	20030095697	2003-05-22	Wood et al.	A1
<input checked="" type="checkbox"/>	22	20030114750	2003-06-19	Brock Fisher et al.	A1
<input checked="" type="checkbox"/>	23	20030038802	2003-02-27	Johnson et al.	A1
<input checked="" type="checkbox"/>	24	20030187362	2003-10-02	Murphy et al.	
<input checked="" type="checkbox"/>	25	20040049116	2004-03-11	Murphy et al.	
<input checked="" type="checkbox"/>	26	20040049115	2004-03-11	Murphy et al.	

### Remarks

Note: Remarks are not for responding to an office action.

Should any fees be required, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert and Goetzl, P.C. Deposit Account No. 50-1505/5838-03101/EBM.

### Signature

Examiner Name	Date
	8/17/2007



<b>Form PTO-1449</b> (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)			ATTY. DKT. NO.: 5838-03101  APPLICANT: Murphy et al.  FILING DATE: January 30, 2003			SERIAL NO. 10/713,911  ART NO. 3762  CONFIRM. NO. 7869		
<b>U.S. PATENT DOCUMENTS</b>								
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE APPROPRIATE	
/NS/		4,436,684	3/13/1984	White				
/NS/		5319551	06/07/1994	Sekiguchi et al.				
/NS/		6415048	07/02/2002	Schneider				
<b>U.S. PUBLISHED APPLICATIONS</b>								
EXAM. INITIALS	REF. DES.	PUBLICATION NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	FILING DATE APPROPRIATE	
/NS/		20010012913	Iliff	8/9/2001				
/NS/		20050020929	Murphy et al.	1/27/2005				
/NS/		20040176678 A1	Murphy et al.	9/9/2004				
/NS/		2004-0176679 A1	Murphy et al.	9/9/2004				
/NS/		2004-0153128 A1	Murphy et al.	8/5/2004				
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
/NS/	E1	International Search Report and Written Opinion for PCT/US04/02669 mailed February 3, 2005 (Atty. Docket No.: 5838-03102).						
/NS/	E2	Written Opinion for PCT/US04/02669 mailed February 3, 2005 (Atty. Docket No.: 5838-03102).						

EXAMINER: /Nasir Shahrestani/

DATE CONSIDERED: 08/20/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner

Information Disclosure Statement--PTO 1449 (modified)